

Date: Fri, 9 Sep 94 18:58:54 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #1011
To: Info-Hams

Info-Hams Digest Fri, 9 Sep 94 Volume 94 : Issue 1011

Today's Topics:

 * SpaceNews 12-Sep-94 *
 * SpaceNews 12-Sep-94 * (corrected)
2m/440 repeaters in the I-95 corridor
 ARUBA, taking their HAM exam
 HPM Lesson?
 ICOM 22S mod (repeater switch)
 In plain English...
 More Power vs. Better Antenna
 Part 15 devices, help!
 STS-64 SAREX Mission Begins
 VANITY CALLS - What's the story????
 When was or is Gathersburg Hamfest? (2 msgs)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 9 Sep 94 18:47:06 GMT
From: news-mail-gateway@ucsd.edu
Subject: * SpaceNews 12-Sep-94 *
To: info-hams@ucsd.edu

SB NEWS @ AMSAT \$SPC0912
* SpaceNews 12-Sep-94 *

BID: \$SPC0912

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SpaceNews
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MONDAY SEPTEMBER 12, 1994

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is published every week and is made available for unlimited distribution.

* SpaceNews EDITOR ON WWCR *

=====

Mark you calendars and warm up your receivers for a live radio interview with the man behind the SpaceNews keyboard, John Magliacane, KD2BD. The producers of "Spectrum", a radio program broadcast over shortwave radio station WWCR, on 5810 KHz, in Nashville, Tennessee will feature an interview with the editor and publisher of SpaceNews on Sunday 11-Sep-94 from 0300 to 0400 UTC (that's Saturday 10-Sep-94 10:00 PM to 11:00 PM Eastern Time).

"Spectrum" is a communications program that originates live from studios in Holmdel, New Jersey, and features news and information regarding shortwave listening, commercial broadcasting, scanning, and Amateur Radio. During the interview, listeners will be given the opportunity to call into Spectrum and ask questions of the guest.

WWCR broadcasts on shortwave with 100 kilowatts of transmitter power, over 1 million watts of effective radiated power, and provides a signal that covers much of the world. In addition, those with TVRO ground stations can receive "Spectrum" on the Galaxy 5 satellite, transponder 17, audio 5.8 MHz.

* FO-20 RETURNS TO MODE JD *

=====

FO-20 software reloading was successfully completed on 06-Sep-94 at 1800 UTC and FO-20 was commanded into mode JD. The following packet frames were captured by KD2BD in New Jersey last Monday:

8J1JBS>BEACON <UI C>:

JAS1b RA 94/09/05 20:06:58

428 442 674 678 730 817 835 821 000 673

608 000 463 482 503 487 497 507 645 000

670 704 655 662 999 635 865 490 018 000

010 101 000 001 111 100 001 111 011 000

8J1JBS>BEACON <UI C>:

JAS1b M0 94/09/05 20:07:00

Mailbox is at your service from 94/09/05 05:10:00

The JD Transmitter is available in all orbits
during JD mode.

The mailbox is also in operation. Congratulations go to the spacecraft controllers for returning FO-20's digital transponder back to life after it had been reported as being lost forever.

Ground stations are encouraged to copy telemetry transmissions made by the satellite, and forward telemetry frames to the spacecraft controllers if the on-board computer should crash once again.

[Info via Kazu Sakamoto, JJ1WTK]

★ HV AND T7 ON A0-13 ★

=====

It's time for Eric Archer, WB6GYD, to take another trip to the lovely country of Italy. Eric plans to be in Rome the period of September 14-28 and will operate from the following locations:

HV3SJ Vatican City: Sept. 17/18

T70A Republic of San Marino: Sept 24/25

The operation at HV3SJ may not result in A0-13 contacts as Eric does not yet have permission to operate in the middle of the night. So at this point in time, A0-13 is questionable for HV3SJ. Eric will operate HF instead (if not satellite). HV3SJ now has a permanent FT-736R, 435 MHz Mirage amplifier and Landwehr LNA at their station. (FT-736R donation is courtesy of Yaesu USA, THANK YOU!!) Eric plans to help install some yagis to complete their permanent station.

Eric has permission to operate in the middle of the night at the RSM Radio Club location, so the operation there is definite. He will either sign as T70A or as T7/WB6GYD. Look for Eric at approximately 0000Z to 0500Z on Sept. 25. This seems to be the best operating time for A0-13.

[Info via Eric Archer, WB6GYD]

★ W2YLV SK ★

=====

John Snodgrass W2YLV has passed away. He was active on A0-10 & A0-13 CW. It is unclear whether John kept any skeds with people on A0-13, but this notice is for all his friends on A0-13. John was in his 70's and died of heart problems. He will be missed, especially by his friends on the radio.

[Info via Len Popyack, WF2V]

* THANKS! *

=====

Thanks to all those who sent messages of appreciation to SpaceNews,
especially:

OS1AMV DB20S VU2JHM WF2V VE4KHS K5MBV WB8LUJ
Robert Munger

* FEEDBACK/INPUT WELCOMED *

=====

Mail to SpaceNews should be directed to the editor (John, KD2BD) via any
of the following paths:

FAX : 1-908-747-7107
PACKET : KD2BD @ N2KZH.NJ.USA.NA
INTERNET : kd2bd@ka2qhd.de.com -or- kd2bd@amsat.org
SATELLITE : AMSAT-OSCAR-16

MAIL : John A. Magliacane, KD2BD
 Department of Engineering and Technology
 Advanced Technology Center
 Brookdale Community College
 Lincroft, New Jersey 07738
 U.S.A.

<<= SpaceNews: The first amateur newsletter read in space! -=>>

/EX

--

John A. Magliacane, KD2BD * /\ /\ * Voice : 1-908-224-2948
Advanced Technology Center |/\ /\ /\ | Packet : KD2BD @ N2KZH.NJ.USA.NA
Brookdale Community College |/\ /\ /\ | Internet: magliaco@pilot.njin.net
Lincroft, NJ 07738 * /\ /\ * Morse : -. -.. ..--- -... -..

Date: 9 Sep 94 19:54:11 GMT
From: news-mail-gateway@ucsd.edu
Subject: * SpaceNews 12-Sep-94 * (corrected)
To: info-hams@ucsd.edu

SB NEWS @ AMSAT \$SPC0912

* SpaceNews 12-Sep-94 *

BID: \$SPC0912

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8J1JBS>BEACON <UI C>:
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Mailbox is at your service from 94/09/05 05:10:00
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Advanced Technology Center
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U.S.A.

<<= SpaceNews: The first amateur newsletter read in space! -=>>

/EX

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John A. Magliacane, KD2BD * /\ * Voice : 1-908-224-2948
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Brookdale Community College |/\| Internet: magliaco@pilot.njin.net
Lincroft, NJ 07738 * /\ * Morse : -. -.. ..--- -..

Date: Thu, 8 Sep 1994 12:46:13 -0400

From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!
newsserver.jvnc.net!rohvm1!roh033.mah48d@network.ucsd.edu
Subject: 2m/440 repeaters in the I-95 corridor
To: info-hams@ucsd.edu

In article <1994Sep7.135451.493@bnlux1.bnl.gov>, natoli@bnlux1.bnl.gov
(tony natoli) wrote:

>
> We are driving down to Hilton Head SC Friday night and would
> like to know if there are any repeaters that welcome transient
> traffic along the way and are reachable with only 5 watts.
>
> Tony (N2ZCZ) & Karen (N2ZDA) Natoli (natoli@bnlux1.bnl.gov)

Date: 9 Sep 1994 14:26:49 GMT
From: ihnp4.ucsd.edu!usc!sdd.hp.com!col.hp.com!fc.hp.com!jayk@network.ucsd.edu
Subject: ARUBA, taking their HAM exam
To: info-hams@ucsd.edu

My name is Ken (klimasewski@fccvde.enet.dec.com) wrote:
: Has anyone taken the HAM exam in ARUBA so they can get a permanent
: P49 call?
: I have the chance to do this in October but can't get any sample questions.
: I don't even know what the code speed might be.
: Ken

You might need to worry about what language is used for the test??

You can get most any available P4? call for about \$25 US extra when you apply
for a license.

73, Jay K0GU jayk@fc.hp.com

Date: 09 Sep 1994 15:25:10 GMT
From: news2.near.net!info-server.bbn.com!news!levin@yale.arp
Subject: HPM Lesson?
To: info-hams@ucsd.edu

In article <34100r\$af1\$1@mhade.inhouse.compuserve.com> Hans Brakob
<71111.260@CompuServe.COM> writes:

[I have reformatted your single line paragraphs.]

This is a "contest like" atmosphere, very similar to SweepStakes in that it is "domestic", and a "little pistol" can play the game. A LOT of folks are obviously enjoying it. Where are these same folks in the SS? What is the "trigger" that drew them into this, or conversely, why aren't they in SS in similar numbers?

I think a lot of people hear the word "contest" and get an image of a lot of mindless frenetic activity calling CQ or calling stations through pileups to exchange a quick "59 NH" with each, staying up all hours to do a 24 or 48 hour event, and generally going crazy and causing assorted domestic conflicts. Of course this is often the way it is, though I can tell you from experience that it's a lot of fun to do a contest casually - see if you can do an hour here and an hour there and get some reasonable scores, as well as filling in the gaps in your WAS or DXCC collection.

The /125 event, lasting over a week, is a more relaxed, unpressured thing where all you get is wallpaper, no one wins--or loses--and the endorsements for 50 - 125 contacts still provide some reward for those who like to show a measure of extra accomplishment. I think it was an excellent idea and I hope we don't have to wait for HPM's 150th to provide an excuse for another event like this.

Novice roundup shares much of these qualities, except that its audience is too limited.

I have some partially baked thoughts on the subject, but I'd like to hear what others might think. (Especially those of you who did the "/125" thing, but never have played seriously in a domestic contest like SweepStakes.)

I have participated semi-seriously once or twice in contests, including SS and ARRL/DX (or CQWW) and have enjoyed it. But I don't feel I _have_ to.

/JBL KD10N

=

Nets: levin@bbn.com | "Earn more sessions by sleeving."

pots: (617)873-3463 |

ARS: KD10N |

-- Roxanne Kowalski

Date: Fri, 09 Sep 1994 12:57:30 -0400

From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!sol.ctr.columbia.edu!

news.msfc.nasa.gov!niven.ksc.nasa.gov!algol.ksc.nasa.gov!k4dii.ksc.nasa.gov!

user@network.ucsd.edu

Subject: ICOM 22S mod (repeater switch)
To: info-hams@ucsd.edu

In article <1994Sep9.032345.4806@toybox.raleigh.nc.us>, n4zbb@toybox.raleigh.nc.us (Ken M. Edwards) wrote:
> A friend of mine (without internet access) has a ICOM 22s that has
> been mod'ed so that all the repeater pairs btwn 146 - 148 on the
> front panel instead of the '1', '2', '3', etc. where the diode matrix
> determined the Tx and Rx freq.s and included simplex. The
> problem is, now that the mod had been made, the simplex freq.s are
> no longer avail., but a four row diode matrix is avail.

Ken-

If that is the same mod as I have, each switch postion is actually for the lower frequency of the repeater pair. When the left-hand toggle switch is in one postion, the radio transmits and receives on the same frequency. When in the other position, it transmits and receives 600 KHz apart. The right-hand toggle switch determines whether the transmit frequency is offset plus 600, or the receive frequency is offset plus 600.

Included among those repeater frequencies, are the simplex frequencies as well. As I recall, the switch has MANY postions, and covers from 146.01 to 147.57, in 30 KHz steps. There was an ultra-miniature toggle switch that could be added, that would change the main switch range by 15 KHz, so that all channels could be accessed. A second ultra-miniature toggle switch could be added to make BOTH transmit and receive frequencies be offset plus 600 from the switch setting.

As you suggested, I believe there were one or two "blank" switch postions that might be used for diode-programmed frequencies.

73, Fred, K4DII

Date: Fri, 9 Sep 1994 11:38:50 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!europa.eng.gtefsd.com!uhog.mit.edu!news.kei.com!world!drt@network.ucsd.edu
Subject: In plain English...
To: info-hams@ucsd.edu

Jeffrey Herman (jeffrey@kahuna.tmc.edu) wrote:

: Recall the true story I posted on here a while back concerning a ham
: who worked on a 2M amp with the cover open for a couple hours - the
: next morning he woke up blind. He said while working on the amp

: he felt *nothing* - no heat, no pain, no discomfort. This story
: was originally passed over the QRP email group from an M.D.
: conducting research on the subject.

Pretty anecdotal, it seems. Is there any evidence that the two events are related? Do they *know* that radiation from the amp caused the blindness? What wavelength radiation? Two meters, or is there something else? Has it happened to anyone else, or does it seem irrepeatable? What other explanations have been proposed, and which tested somehow and ruled out? "Post hoc, ergo propter hoc."

-drt

David R. Tucker KG2S 8P9CL drt@world.std.com

Date: Thu, 08 Sep 94 22:32:21 EST
From: uunet.ca!uunet.ca!cml.com!manok@uunet.uu.net
Subject: More Power vs. Better Antenna
To: info-hams@ucsd.edu

IK>In article <3482j8\$gkb@prodsq1.prodigy.bc.ca>,
IK>Paul Antaki <pantaki@prodigy.bc.ca> wrote:
IK>>I'm trying to make the most of a battery pack on my HT and I find that I
IK>>need to transmit at high power (5 watts) to hit some repeaters I'm
IK>>interested in. Someone once mentioned to me that it would be better to
IK>>use a better antenna (telescopic perhaps) instead of higher power. Would
IK>>someone perhaps be able to explain the relationship between the antenna
IK>>gain and output power?

IK>>
IK>>Many Thanks,
IK>>
IK>>Paul VE7ZPA

IK>Paul -

IK> For all intensive purposes, 3dB of antenna gain will give you
IK> the same ERP increase as doubling your Tx power. A good
IK> antenna is the first and best step towards increasing your
IK> range. Consider that with a good antenna on 440 MHz you
IK> can easily 4x the effective output power without increasing
IK> your true Tx power one bit.

IK> One thing people should be aware of is the decreasing efficiency
IK> of class C power amplifiers as the power output drops. If

IK> you look at the power consumption of a HT between 0.5W
IK> and 5W, there isn't a 10x reduction in battery power
IK> consumption going to a lower output power. The ratio is
IK> somewhere between 3 and 4x. Between 2W and 0.5W (typical
IK> high and low power on a 7.2V pack), the output power varies
IK> 4x, but the current draw varies by 1.5:1. This is
IK> important to know if you want to maximize power efficiency
IK> while keeping battery current in check.

IK> In summary, get a good antenna.

IK> ==ken

Also,
If
You
Cant
Hear
It
U
Can't
Work
It...

-Ino 73's

ComputerLink 'the easy way to bbs' (416) 233 - 7150

Date: Fri, 9 Sep 1994 13:43:09 GMT
From: psinntp!arrl.org!ehare@uunet.uu.net
Subject: Part 15 devices, help!
To: info-hams@ucsd.edu

Clark Savage Turner WA3JPG (turner@safety.ICS.UCI.EDU) wrote:

: I need to know how these are treated by Part 15 if possible, we have a
: tower permit hearing on Wed night, and there is an irate attorney
: coming who will complain about interference to those devices. I would
: like to show her Part 15 and quietly relax.

Part 15 devices such as these:

1. Must not cause interference to other radio services.
2. Must suffer any interference caused to them by other radio services.

This information is contained in Part 15 and should also appear on a label on the unit or in its instruction manual.

: I give a presentation tonight to a hearing board (Wed night) so if anyone
: has some good info, could you pass it along soon?

I am surprised they are honing in on Part 15 -- are they not also concerned about televisions (could be your fault) or telephones (never your fault, according to the FCC)?

I do hope you have spoken with John Hennessee, our Regulatory Information Specialist. He may have some additional information. Could you use a copy of our RFI package and our RFI pamphlet, which explains interference to the layman? I will send them today, and call you later this afternoon.

Do let me know if I can help.

73 from ARRL HQ, Ed

--

Ed Hare, KA1CV, ARRL Laboratory, 225 Main, Newington, CT 06111
203-666-1541 ehare@arrl.org

Date: 10 Sep 94 01:43:43 GMT
From: news-mail-gateway@ucsd.edu
Subject: STS-64 SAREX Mission Begins
To: info-hams@ucsd.edu

SB SAREX @ AMSAT \$STS-64.001
STS-64 SAREX Liftoff

Silver Spring, MD, September 9 1994 at 21:00 EDT

The Space Shuttle Discovery roared into the skies of the Kennedy Space Center today initiating the fourth Shuttle Amateur Radio Experiment (SAREX) flight this year. The STS-64 mission, delayed by looming showers and clouds, was launched 1 hour 53 minutes later than originally planned. Liftoff of Discovery occurred at 22:22:55 UTC. The six member crew of STS-64 will spend 9 days on-orbit performing and supporting several flight experiments. These include atmospheric studies which will be performed using the LIDAR In-Space Technology Experiment (LITE), deploying and retrieving the Spartan-201-II astronomy satellite, and supporting the Robot Operated Materials Processing System (ROMPS) experiment.

Three of the crew members are ham radio operators. They are Shuttle Commander Dick Richards, KB5SIW, Pilot Blaine Hammond, KC5HBS, and

Mission Specialist and Jerry Linenger, KC5HBR. The three will operate the SAREX in both voice and packet modes. SAREX is a secondary mid-deck payload that allows ham radio operators and school students the opportunity to talk to the astronauts while they are in orbit. Ten scheduled school group contacts with students in the US and New Zealand are planned. The SAREX Working Group expects the SAREX payload to be configured and operational approximately 22 hours into the flight or at approximately 20:22 UTC on September 10. Please note that Shuttle power conservation measures, required to support an extra (10th) day of flight, is expected to result in the packet radio system being turned on later than what usually occurs in a typical SAREX mission. Listen on the downlink frequency (145.55 MHz) for the packet system BEFORE sending packet connects to the Space Shuttle.

The following Keplerian element set, JSC-012, which was developed by Gil Carman, WA5NOM, is the official SAREX element set for today.

STS-64

```
1 23251U 94059A 94253.17923136 .00083204 00000-0 14200-3 0 128
2 23251 57.0058 223.4928 0009244 269.5211 90.4820 16.05202670 52
```

Satellite: STS-64

Catalog number: 23251

Epoch time: 94253.17923136 = (10 SEP 94 04:18:05.59 UTC)

Element set: 012

Inclination: 57.0058 deg

RA of node: 223.4928 deg

Space Shuttle Flight STS-64

Eccentricity: .0009244

Keplerian element set JSC-012

Arg of perigee: 269.5211 deg

Launch: 09 SEP 22:22:55 UTC

Mean anomaly: 90.4820 deg

Mean motion: 16.05202670 rev/day

Gil Carman

Decay rate: 8.3204e-04 rev/day^2

NASA Johnson Space Center

Epoch rev: 5

Checksum: 263

These elements will propagate to match the nominal planned trajectory with respect to Mission elapsed time, and have been adjusted to reflect the actual launch time of 22:22:55.

Submitted by Frank H. Bauer, KA3HDO for the SAREX Working Group
/EX

Date: 9 Sep 1994 15:02:11 GMT

From: george.inhouse.compuserve.com!news.inhouse.compuserve.com!compuserve.com!

news@uunet.uu.net
Subject: VANITY CALLS - What's the story????
To: info-hams@ucsd.edu

The comment period has expired (in April, if I remember right).
The ARRL and many other individuals and organizations submitted
their comments. Most (if not all) commenters were supportive of
the idea, and suggested some modification such as "staged
introduction" to allow retrieval of previously held calls, etc.
The ARRL comments were published in QST and the ARRL Letter.

Now the issue is awaiting the FCC decision.

--
Hans Brakob, KOHB | EX-KG6AQI, WA0PQF, WB9DLL
Vice Director | WB4GXH, WB0WFF
Dakota Division ARRL | 73 from Minnesota

Date: 9 Sep 1994 14:59:29 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!europa.eng.gtefsd.com!
news.umbc.edu!haven.umd.edu!cs.umd.edu!newsfeed.gsfc.nasa.gov!bolt.gsfc.nasa.gov!
user@network.ucsd.edu
Subject: When was or is Gathersburg Hamfest?
To: info-hams@ucsd.edu

Was away on vacation, might have missed it? Dick W1DGA

Date: 9 Sep 1994 16:51:24 GMT
From: ihnp4.ucsd.edu!pacbell.com!sgiblab!spool.mu.edu!howland.reston.ans.net!
swiss.ans.net!gatech!udel!news.udel.edu!diusys!dave@network.ucsd.edu
Subject: When was or is Gathersburg Hamfest?
To: info-hams@ucsd.edu

Lightning Bolt (RICHARD_BOLT@CCMAIL.GSFC.NASA.GOV) wrote:
: Was away on vacation, might have missed it? Dick W1DGA

No, you didn't miss it. Happening this Sunday Sept 11.

cu there, I'm the one carrying the boat anchors. Dave WA3U

Date: (null)
From: (null)

--

John Taylor (W3ZID) | "The opinions expressed are those of the
roh033.mah48d@rohmmaas.com | writer and not of Rohm and Haas Company."

End of Info-Hams Digest V94 #1011
